# Fall 2011 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

#### Sacramento River Basin

RD0817	Overall LMA	Total LMA				
Reclamation District No. 0817 Carlin	Rating	Miles				
	M	9.19				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	
Earthen Levee				0 =00/		
Vegetation	0.07		0.07	0.76%		
Encroachments					0.06	
Slope Stability	1.11		1.11	12.08%		
Interior Drainage & Piping Systems  Metal Pipes		0.01	0.04	0.44%		
•						
Flap Gates	4.40	0.01	0.04	0.44%	0.00	0.00
LMA Totals:	1.18	0.02	1.26	13.71%	0.06	0.00
Unit No. 01 South Dry Creek LB	Overall Unit Rating	Total Unit Miles				
RD0817	A	3.82				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroad PO Miles	
No Items						
Unit Totals:	0.00	0.00	0.00	0.00%	0.00	0.00
Unit No. 02 Bear River RB	Overall Unit Rating	Total Unit Miles				
RD0817	U	3.87				
					Encroad	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroad PO Miles	
Earthen Levee		U Miles				
Earthen Levee Vegetation	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	
Earthen Levee Vegetation Encroachments	0.03	U Miles	0.03	0.78%		
Earthen Levee  Vegetation  Encroachments  Slope Stability	0.03		0.03	0.78%	PO Miles  0.06	CO Miles
Earthen Levee Vegetation Encroachments	0.03	U Miles  0.00	0.03	0.78%	PO Miles	
Earthen Levee  Vegetation  Encroachments  Slope Stability	0.03  1.11 1.14  Overall Unit Rating	0.00 Total Unit	0.03  1.11 1.14  * Overall Unit 10.00%; hov	0.78% 28.68% 29.46%  Threshold Perceivever, U Rated M	0.06 0.06 0.06 tis less that iles are pres	O.00
Earthen Levee  Vegetation Encroachments Slope Stability Unit Totals:	0.03  1.11 1.14  Overall Unit	0.00 Total Unit	0.03  1.11 1.14  * Overall Unit 10.00%; hov	0.78% 28.68% 29.46% Threshold Percer	0.06  0.06  0.06  ottis less that iles are presented of A.	0.00
Vegetation Encroachments Slope Stability Unit Totals:  Unit No. 03 Dry Creek RB  RD0817  Rated Item	0.03  1.11 1.14  Overall Unit Rating	0.00 Total Unit	0.03  1.11 1.14  * Overall Unit 10.00%; hov	0.78% 28.68% 29.46%  Threshold Perceivever, U Rated M	0.06 0.06 0.06 tis less that iles are pres	0.00 nent, so
Earthen Levee  Vegetation Encroachments Slope Stability Unit Totals:  Unit No. 03 Dry Creek RB  RD0817  Rated Item Earthen Levee	0.03  1.11 1.14  Overall Unit Rating M *  M Miles	0.00 Total Unit Miles 1.50	0.03  1.11 1.14  * Overall Unit 10.00%; how the Overall U	0.78%  28.68% 29.46%  Threshold Percervever, U Rated M Unit Rating is M in	0.06  0.06  t is less that iles are presstead of A.  Encroac	0.00 nent, so
Earthen Levee  Vegetation Encroachments Slope Stability Unit Totals:  Unit No. 03 Dry Creek RB  RD0817  Rated Item  Earthen Levee Vegetation	0.03  1.11 1.14  Overall Unit Rating M *	0.00 Total Unit Miles 1.50	0.03  1.11 1.14  * Overall Unit 10.00%; how the Overall U	0.78%  28.68% 29.46%  Threshold Percervever, U Rated M Jnit Rating is M in	0.06  0.06  t is less that iles are presstead of A.  Encroac	0.00 nent, so
Earthen Levee  Vegetation Encroachments Slope Stability Unit Totals:  Unit No. 03 Dry Creek RB  RD0817  Rated Item  Earthen Levee Vegetation Interior Drainage & Piping Systems	0.03  1.11 1.14  Overall Unit Rating M *  M Miles	0.00 Total Unit Miles 1.50	0.03  1.11 1.14  * Overall Unit 10.00%; how the Overall U	0.78%  28.68% 29.46%  Threshold Percervever, U Rated M Unit Rating is M in	0.06  0.06  t is less that iles are presstead of A.  Encroac	0.00 nent, so
Earthen Levee  Vegetation Encroachments Slope Stability Unit Totals:  Unit No. 03 Dry Creek RB  RD0817  Rated Item  Earthen Levee Vegetation	0.03  1.11 1.14  Overall Unit Rating M *  M Miles	0.00  Total Unit Miles  1.50  U Miles	0.03  1.11 1.14  * Overall Unit 10.00%; hov the Overall U M + 4U Miles  0.04	0.78%  28.68% 29.46%  Threshold Percervever, U Rated M Init Rating is M in  Threshold %  2.67%	0.06  0.06  t is less that iles are presstead of A.  Encroac	0.00 nent, so

# **LMA District Cover Sheet**

### Fall 2011 Levee Inspection Results

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)					
* Overall LMA Rating (Fall Only)			M						
	** Non-receipt of Su	ımmer or Winter Insp	ection Reports may effec	ct overall annual rating					
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.  FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.									
Comments									

### **Unit Cover Sheet**

### Fall 2011 Levee Inspection Results

# **Reclamation District No. 0817 Carlin**

	Water	way		Bank	Unit Miles					
	Unit No. 01 Sou	ith Dry Creek		Left	3.82					
	Spring (March - May)	Summer (June - August)	(September - November)	Winter (December - Febru						
Unit Maintenance Rating (Fall Only)			A							
Date of Inspection	5/19/2011 - 5/19/2011		11/28/2011 - 11/28/2011							
DWR Inspector	Clay Thomas		Clay Thomas							
Accompanied By	Joe Conant RD 817		Joe Conant rd-817							
project components conditions other that deficiencies identified.  During the current with project components maintenance and the	vinter (or summer) inspection p identified in the attached Leve in the results of our normal mai ed in the enclosed report. vinter (or summer) inspection p identified in the attached Leve e corrections we have made to	ee Inspection Report by intenance and the corresponding to the correspon	Mile. We have found no change ctions we have made to maint e inspected the levee and asso Mile. In addition to the results	ges in flo enance ociated fl of our no	ood project ood ormal					
(In the comment see	n flood project conditions. ction below or on additional sho n (Land Side, Water Side, or C									
Comments										
information must also be s	3	eet should be signed ar	nd dated by the LMA Represent ch 31 (Winter Inspection). Pleast spection Reports c, Suite 200	tative an	d returned to					

Signature of LMA Representative

Date

### Levee Inspection Report By Mile - Fall 2011

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	3.82	11/28/2011 11/28/2011	Clay Thomas

LMR	Levee	Mile	Category	Item	Loca:	Rating	Action/Comment	GPS Latitud	Issue No.	
No.	Start	End	Category	item	ation	ng	Action/Comment	Start	End	Photo
1	0.05	3.79	Earthen Levee	Vegetation	LS	Α	Remove the wild growth other than native grasses from the levee slopes.	38.984140 ° -121.505460 °	38.992890 ° -121.438350 °	1 Y
2	0.05	3.79	Earthen Levee	Vegetation	WS	Α	Remove the wild growth other than native grasses from the levee slopes.	38.984140 ° -121.505460 °	38.992890 ° -121.438350 °	2 Y

### Levee Inspection Report By Mile - Fall 2011

# **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	3.82	11/28/2011 11/28/2011	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.05
End Levee Mile	3.79
Location	Land Side
Category	Earthen Levee
Item	Vegetation
This photo shows the lan	daida vagatation at lavas

This photo shows the landside vegetation at levee mile 2.91.

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Levee Mile Report Line	2
Start Levee Mile	0.05
End Levee Mile	3.79
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo shows the waterside vegetation at levee mile 2.91.

cathom\_f\_20111201\_032.jpg





WS : Water Side CR : Crown

### **Unit Cover Sheet**

### Fall 2011 Levee Inspection Results

	Water	way		Bank	Unit Miles					
	Unit No. 02 E	Bear River		Right	3.87					
	Spring (March - May)	Summer (June - August)	(September - November) Fall		Winter ber - February)					
Unit Maintenance Rating (Fall Only)			U							
Date of Inspection	5/19/2011 - 5/19/2011		11/28/2011 - 11/28/2011							
DWR Inspector	Clay Thomas		Clay Thomas							
Accompanied By	Joe Conant		Joe Conant							
project components conditions other that deficiencies identified.  During the current with project components maintenance and the	Check one:  During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.  During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.									
	n (Land Side, Water Side, or C									
information must also be s	3	eet should be signed ar	nd dated by the LMA Represer ch 31 (Winter Inspection). Plea aspection Reports e, Suite 200	ntative an	d returned to					
X										
Signature of LMA Repres	sentative		Date							

### Levee Inspection Report By Mile - Fall 2011

# **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	3.87	11/28/2011 11/28/2011	Clay Thomas

LMR	Levee	Mile	Catagony	Item	Location	Rating	Action/Comment	GPS Latitud	e/Longitude	Issue No.
No.	Start	End	Category	пеш	tion	ing	Action/Comment	Start	End	Photo
1	0.27	0.27	Earthen Levee	Vegetation	LS	М	Remove the wild growth other than native grasses from the levee slopes.	38.984377 ° -121.501553 °	38.984377 ° -121.501553 °	1
2	0.32	0.32	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.984467 ° -121.500488 °	38.984467 ° -121.500488 °	2
3	0.39	0.39	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.984542 ° -121.499283 °	38.984542 ° -121.499283 °	3
4	0.53	0.53	Earthen Levee	Vegetation	LS	С	Remove the wild growth other than native grasses from the levee slopes.	38.984763 ° -121.496697 °	38.984763 ° -121.496697 °	4
5	0.59	0.59	Earthen Levee	Vegetation	LS	С	Remove the wild growth other than native grasses from the levee slopes.	38.984895 ° -121.495520 °	38.984895 ° -121.495520 °	5
6	1.76	1.82	Earthen Levee	Encroachments	LS	РО	Landscaping	38.987792 ° -121.474295 °	38.988118 ° -121.473372 °	6
7	2.06	3.84	Earthen Levee	Vegetation	WS	Α	Remove the wild growth other than native grasses from the levee slopes.	38.989316 ° -121.469176 °	38.993156 ° -121.437872 °	8 Y
8	2.06	3.84	Earthen Levee	Vegetation	LS	Α	Remove the wild growth other than native grasses from the levee slopes.	38.989316 ° -121.469175 °	38.993157 ° -121.437872 °	7 Y
9	2.08	3.19	Earthen Levee	Slope Stability	LS	М	Repair slope instability.	38.989338 ° -121.468640 °	38.994124 ° -121.449448 °	10 Y

LS : Land Side WS : Water Side CR : Crown A : Acceptable PO : P
M : Minimally Acceptable CO : C
U : Unacceptable W : W

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor N : Not Inspected, see Inspector Comment

### Levee Inspection Report By Mile - Fall 2011

# **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	3.87	11/28/2011 11/28/2011	Clay Thomas

Levee Mile Report Line	7						
Start Levee Mile	2.06						
End Levee Mile	3.84						
Location	Water Side						
Category	Earthen Levee						
Item	Vegetation						
This photo shows the waterside vegetation at levee mile 2.69.							

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Levee Mile Report Line	8
Start Levee Mile	2.06
End Levee Mile	3.84
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo shows the landside vegetation at levee mile 2.69.

cathom\_f\_20111202\_834.jpg

Levee Mile Report Line	9
Start Levee Mile	2.08
End Levee Mile	3.19
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Levee mile 2.08, this photo shows the slope is less than required, this is the downstream limit of the site, this is the waterside slope.

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WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

### **Unit Cover Sheet**

### Fall 2011 Levee Inspection Results

	Water	way		Bank	Unit Miles			
	Right	1.50						
	Spring (March - May)	Summer (June - August)	(September - November)		Winter ber - February)			
Unit Maintenance Rating (Fall Only)			M					
Date of Inspection	5/19/2011 - 5/19/2011		11/28/2011 - 11/28/2011					
DWR Inspector	Clay Thomas		Clay Thomas					
Accompanied By								
Check one:								
project components conditions other that deficiencies identified.  During the current w	vinter (or summer) inspection p identified in the attached Leve in the results of our normal mai ed in the enclosed report. vinter (or summer) inspection p identified in the attached Leve	ee Inspection Report by intenance and the correport of the correport of the corresponding to	Mile. We have found no changections we have made to maint e inspected the levee and asso	ges in flo tenance ociated fl	ood project			
maintenance and the following changes in (In the comment see	e corrections we have made to a flood project conditions. ction below or on additional she	eet(s), identify change	cies identified in the report, we of condition by: Start to End Le	have fou evee Mile	und the			
coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).								
Comments  One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to:  DWR Summer/Winter Inspection Reports 3310 El Camino Avenue, Suite 200 Sacramento, CA 95821-9000								
x								
Signature of LMA Repres	sentative		Date					

### Levee Inspection Report By Mile - Fall 2011

# **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Dry Creek	Right	1.50	11/28/2011 11/28/2011	Clay Thomas

LMR No.	Levee	Mile End	Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude Start End	Issue No. Photo
1	0.27	1.45	Earthen Levee	Vegetation	LS	Α	Remove the wild growth other than native grasses from the levee slopes.	38.987720 ° 38.998900 ° -121.506300 ° -121.490020 °	
2	0.27	1.45	Earthen Levee	Vegetation	WS	Α	Remove the wild growth other than native grasses from the levee slopes.	38.987720 ° 38.998900 ° -121.506300 ° -121.490020 °	
3	0.32	0.32	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.988140 ° 38.988140 ° -121.505213 ° -121.505213 °	
4	0.58	0.58	Earthen Levee	Vegetation	LS	М	Remove the wild growth other than native grasses from the levee slopes.	38.990330 ° 38.990330 ° -121.501122 °	
5	0.70	0.70	Interior Drainage & Piping Systems	Flap Gates	WS	U		38.991178 ° 38.991178 ° -121.499774 °	
6	0.70	0.70	Earthen Levee	Vegetation	LS	М	Remove the wild growth other than native grasses from the levee slopes.	38.991320 ° 38.991320 ° -121.499368 °	
7	0.75	0.75	Earthen Levee	Vegetation	LS	М	Remove the wild growth other than native grasses from the levee slopes.	38.991758 ° 38.991758 ° -121.498702 °	
8	1.18	1.18	Interior Drainage & Piping Systems	Metal Pipes	WS	U		38.995873 ° 38.995873 ° -121.493130 °	
9	1.33	1.50	Earthen Levee	Crown Surface / Depressions / Rutting	CR	С	Add appropriate gravel or road base. Grade and compact.	38.997588 ° 38.999736 ° -121.491121 ° -121.489957 °	

Location LS : Land Side WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

### Levee Inspection Report By Mile - Fall 2011

# **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Dry Creek	Right	1.50	11/28/2011 11/28/2011	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.27
End Levee Mile	1.45
Location	Land Side
Category	Earthen Levee
Item	Vegetation
This whate shows the law	

This photo shows the landside vegetation at levee mile 0.50.

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Levee Mile Report Line	2
Start Levee Mile	0.27
End Levee Mile	1.45
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo shows the waterside vegetation at levee mile 0.50.

cathom\_f\_20111201\_034.jpg

Levee Mile Report Line	5
Start Levee Mile	0.70
End Levee Mile	0.70
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Flap Gates

Levee mile 0.70, this is a photo of a missing flap gate at the waterside berm.

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Location

LS : Land Side

WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

# Levee Inspection Report By Mile - Fall 2011

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Dry Creek	Right	1.50	11/28/2011 11/28/2011	Clay Thomas

Levee Mile Report Line	8
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Metal Pipes
Levee mile 1.18, this is a photo of a damaged pipe at the waterside berm.	
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-	

